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## CLAIMS

1. A catalytic cellulignin fuel, characterized in that it is composed of cellulose and globulized lignin with specific surface of about  $1.5 - 2.5 \text{ m}^2/\text{g}$ .

2. A catalytic cellulignin fuel according to claim 1, characterized in that it is composed of cellulose and globulized lignin with an average specific surface of about  $2 \text{ m}^2/\text{g}$ .

Sub A1  
3. A cellulignin fuel according to claim 1 or 2, characterized in that it has a heat combustion value of about 18 to 20 MJ/kg.

4. A cellulignin fuel according to any one of claims 1 to 3, characterized in that it is ground into particles having size lower than 250  $\mu\text{m}$ .

5. A cellulignin fuel according to any of the preceding claims, characterized in that it presents an ignition time equal to or shorter than 20 ms (0.02s).

6. A cellulignin fuel according to any one of the preceding claims, characterized in that it has a volatilization temperature of about  $350^\circ \text{C}$ .

7. A cellulignin fuel according to any one of the preceding claims, characterized by a Na + K content lower then or equal to 5 ppm.

8. A cellulignin fuel according to any one of the preceding claims, characterized in that it generates combustion gases with total particulates lower than 200 ppm, the particles having diameter lower than 5  $\mu\text{m}$  at concentrations lower than 8 ppm.